

RMP [OCA] Summary Report**Geismer Olefins Plant****EPA Facility ID: 1000 0009 8119****Address: 5205 Highway 3115, Geismar, LA 70734****County: Iberville Parish****Full Time Employees Onsite: 109**

Covered By:

OSHA PSM: YES

EPCRA 302: YES

CAA Title VI: YES

Air Operating Permit: 0180-00029V8

Last Safety Inspection (By an External Agency): 20-Feb-2008State Environmental Agency

Process Chemicals: Chlorine (12,000 lbs); 1,3 Butadiene (2,400,000 lbs); Ethane (80,000 lbs);
Propane (200,000 lbs); Propylene [1-Propene] (750,000 lbs); Ethylene [Ethene] (130,000 lbs);

Worse Case:

1. Chlorine, Liquid spill & vaporization, 2000 lbs, 10 min release duration, urban, residential population – 6,
Endpoint Distance 1.3 mi , No public or environmental receptors
2. 1,3 Butadiene, Vapor Cloud Explosion, 1,500,000 lbs, 0 release duration, residential population – 0,
Endpoint Distance – 0.9 mi, No public or environmental receptors, Passive Mitigation: None,
Active Mitigation: None

Alternative Release:

1. Chlorine, Pipe Leak, 170 lbs, 30 min release duration, urban, residential population – 0, Endpoint Distance – 0.1 mi,
No public or environmental receptors
 2. 1,3 Butadiene, Vapor Cloud Explosion, 14000 lbs, 0 release duration, residential population – 0,
Endpoint Distance – 0.9 mi, No public or environmental receptors, Passive Mitigation: None
Active Mitigation: Emergency Shutdown Valve (ESD)
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Accident History:

1. Jan 28, 2009, Fire, Piping/Cracking Furnace Heat Exchanger, No Evacs/Deaths/Injuries, No Environmental
Damage, Propane/Ethylene/1,3 Butadiene/Ethane/Propylene,
Contributing Factors: Equipment Failure and Process Design Failure
 2. Sept 5, 2012, Explosion, Furnace, No Evacs/Deaths/Injuries, No Environmental Damage,
Ethane/Propane, Contributing Factors: Human Error, Improper Procedures
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Mitigation Systems in Use: Sprinkler System, Dikes, Deluge System